(ATENT COOPERATION TREAT)

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
12136.3WOU1	ACTION as	well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US2005/000482	07/01/2005	08/01/2004
Applicant	<u> </u>	
IDAHO RESEARCH FOUNDATION,	INC.	
This International Search Report has been according to Article 18. A copy is being tra		Authority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in	this report.
	international search was carried out on the ess otherwise indicated under this item.	basis of the international application in the
The international this Authority (Rul		anslation of the international application furnished to
b. X With regard to any nucleo	otide and/or amino acid sequence disclo	sed in the international application, see Box No. I.
2. X Certain claims were four	nd unsearchable (See Box II).	
3. Unity of invention is lack	king (see Box III).	
4. With regard to the title ,		
the text is approved as su	• • • • • • • • • • • • • • • • • • • •	
_	hed by this Authority to read as follows:	CY ADMINISTRATION OF MUTATED E
NTEROTOXINS	OFATIC CEDD COOM IN MIDI	CI ADMINISTRATION OF MOTATED
		
5. With regard to the abstract,		
X the text is approved as su	bmitted by the applicant.	
the text has been establis may, within one month fro	hed, according to Rule 38.2(b), by this Autom the date of mailing of this international	thority as it appears in Box No. IV. The applicant search report, submit comments to this Authority.
6. With regard to the drawings,		·
a. the figure of the drawings to be p	published with the abstract is Figure No. $_$	
as suggested by t	• •	
	s Authority, because the applicant failed to	
	s Authority, because this figure better char	racterizes the invention.
b. X none of the figures is to be	e published with the abstract.	

nternational application No.

PCT/US2005/000482

Į	Rox	No.	N	ucleotide and	d/or amino ac	id sequence((s) (Continu	ation of item	1.b of the fire	st sheet)	
	1.	Witt	regard	to any nucleoti ne international	ide and/or amino search was can	o acid sequence ried out on the b	e disclosed in to	he international	application and	i necessary to t	he claimed
		a.	type o	of material a sequence li table(s) relate	isting ed to the sequer	nce listing					
		b.	format X X	t of material in written form in computer r							
		c.	time o	filed together	g he international with the interna sequently to this	tional application	n in computer				
	2.		or tu	irnisnea, the re	ase that more th quired statemen or does not go t	its that the inforr	mation in the s	subsequent or a	dditional copies	is identical to t	s been filed hat in the
	3.	Addi	tional co	omments:							
								•			

national Application No `ruT/US2005/000482

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K39/085 A61K A61K39/09 A61P31/04 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, EMBASE, FSTA C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category ° Relevant to claim No. χ WO 01/60851 A (LG CHEMICAL LTD; LEE, 1,2,4,5, HONG-KYUN; PARK, YONG-HO; HAN, KYU-BOEM; 7-9. CHANG,) 23 August 2001 (2001-08-23) 11 - 17Υ page 3, lines 10-17 10 page 4, lines 5-15 page 5, line 23 - page 6, line 6 page 23, line 14 - page 27 Υ WO 99/27889 A (IDAHO RESEARCH FOUNDATION, 10 INC; BOHACH, GREGORY, I) 10 June 1999 (1999-06-10) cited in the application abstract page 5, lines 12-26 page 6, lines 23-33 page 8, lines 1-24 example 2; table 4 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance invention *E* earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but in the art. later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 21 July 2005 29/07/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Noë, V

Fax: (+31-70) 340-3016

mational Application No

Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. HOVDE C J ET AL: "INVESTIGATION OF THE ROLE OF THE DISULPHIDE BOND IN THE ACTIVITY AND STRUCTURE OF STAPHYLOCOCCAL ENTEROTOXIN C1" MOLECULAR MICROBIOLOGY, BLACKWELL SCIENTIFIC, OXFORD, GB, vol. 13, no. 5, 1994, pages 897–909, XP002067000 ISSN: 0950–382X the whole document
A HOVDE C J ET AL: "INVESTIGATION OF THE ROLE OF THE DISULPHIDE BOND IN THE ACTIVITY AND STRUCTURE OF STAPHYLOCOCCAL ENTEROTOXIN C1" MOLECULAR MICROBIOLOGY, BLACKWELL SCIENTIFIC, OXFORD, GB, vol. 13, no. 5, 1994, pages 897-909, XP002067000 ISSN: 0950-382X
ROLE OF THE DISULPHIDE BOND IN THE ACTIVITY AND STRUCTURE OF STAPHYLOCOCCAL ENTEROTOXIN C1" MOLECULAR MICROBIOLOGY, BLACKWELL SCIENTIFIC, OXFORD, GB, vol. 13, no. 5, 1994, pages 897-909, XP002067000 ISSN: 0950-382X

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 1-17 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box II.2

Present claims 1-4,9,11-13,15-17 relate to an large number of possible methods. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the methods claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be disclosed, namely those parts relating to the methods comprising administering disulfide loop region deletion mutants from staphylococcal enterotoxins or from Streptococcus pyrogenes toxins (see page 4, line 25 - page 5, line 6).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.



nternational application No. PCT/US2005/000482

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 117 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. X Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Ir ation on patent family members

mational Application No

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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